

BRAZIL

1978 -

1979

- 14 Feb Begin PB study Zigue/Zana  
15 Feb Poco Pequeno/2<sup>a</sup> Agua + group  
fission - takeover  
16 Feb The forest, Dietz troll  
18 Feb Oak falling all over in forest  
19 Feb Tres Machos Case Guida  
Encounter  
1 Mar Chasing Riverbanks/Pensygnor  
3 Mar Newgrp fugitivo - in mud  
to knees.  
4 Mar Catching up with "Z"  
5 Mar - Cacador + hunter problems.  
Use PB study to talk @  
boundary encounters  
(Make love not war)  
Junior high school from

FEDERAL SUPPLY SERVICE

(GPO)



13  
Feb

Fernando Fernandes begins  
Cecilia beginning to trap Kannab.

Mr Magoo - Luis Pereira

Zigue training Andreia + Otavio in  
processing.

14 Feb - Begin PB study with Zigue/Zama  
B'day party Cecilia / Boi Branco  
Cecilia + Jody work on Pb hats.  
just opened

20 II - My back goes out  
→ BH for 1st Biodivers.  
Congr. with Jody

21 II - GHLT meeting at Congr.

22 II - Return to Rio → PdA.

23 II - 4 March: PB studies w/  
Zigue + Zama.

Errant - Thoughts <sup>Andy to</sup> write encounter  
paper GLT Boundary  
Encounters:

a Junior High School Prom?

Andy's father dies; brother sick  
Beth declares she loves him.

Pol\*

Pol\*

Brazil

Reintr\*

13 Feb - 5 March 89

\*Cons

Beth still around and  
angry: mainly attacking  
Fernando. Declares love  
for Andy. US boyfriend  
breaks off relationship.

\*Edu

\*People



Boquirão

Boi Branco



12 Feb  
Lund.

12 Feb 89 -

Leave DC @ 1900 hrs -  
arr. NYC 2015. No where to  
sit since they don't open gate.  
I have 4 bags; 2 to check.  
Am carrying speaker, 2 tape  
recorders, receiver, chocolates,  
pens, ketamine. All of  
which I potentially can lose  
at Customs.

Flight to Rio absolutely full -  
not an empty seat.  
Arr. @ 0930 hrs.

13 Feb 89 - I walk thru Customs  
loaded with luggage as tho  
I've never been to Rio before.  
I don't even press the button,  
but look ignorant. They  
wave me right thru.

Beth meets me, in red tomato  
fusca. We drive straight  
to Reserva, arrive near



13 Feb

mond

lunchtime. I talk with Beth + slowly unpack. Fernando the new administrator is not there. Zik + Elizama arrive. They have 3 animals to process later in P.M.

I give them the protocols + set up a time to discuss the protocols.

Cecilia Kerruly is here trying to trap Kannabateomys with Eduardo? No success yet.

As the 1st few days pass, Cecilia seems to get more depressed

about the lack of success. But she's a super person — enthusiastic, cheerful, a real addition to the crew + everyone seems to really enjoy her.

We process the 3 monkeys in the evening. Zik is in charge with Andreia helping.

Andreia doesn't yet know the ropes + Zik is slowly teaching her (eg she does the infectious + paperwork). Two days later Zik starts teaching



mond  
13th

Otávio who clearly needs to learn.

Diomício is around in the afternoon  
briefly with Luis Pereira  
(that everyone calls Mr Magee)

Pereira needs to have deep discussion  
with me — about reeding traps  
& money & thanking us for all  
of our help. He must have  
thanked me 15 times & bowed  
& scraped. Pereira is clearly  
a loser. Can't find a study  
site. Hard time getting support.  
Supervised by Kleber Alho who  
he never sees. And is slightly  
cross-eyed to boot!

Finally met Fernando Fernandes  
during processing. I later  
go over with him several issues

At dinner are Cecilia Eduardo Fernando  
Zuk Zuma, Rossano (an  
intern) & Poncia, (an intern)  
me & Andreia.



14 Feb  
Tues

14 Feb 89 -

Zik + Zamar + I sit down + discuss the protocols at length + then to a test playback with Niko's group, a pair of reintroduced monkeys that have lost their release site + are waiting to be re-released.

We work out a protocol + methodology. Special problems arise because I couldn't re-record the originals on a single new tape after deciding that the tape made by Javier Alvarez wasn't good enough.

I tried to find some better examples while on the plane, but realized that they wouldn't copy well from one Walkman to the other.

Another problem was the connection between the Sennheiser mike + the Walkman. A very poor connection. There was



14 Feb

Tues

an old sensoriseri mild at Headquarters but its connection was worse.

Couldnt remember whether I had mono or stereo before, with the machinery I sent to China.

Everyone is back + cleans up early. for a Valentine's day party at the new Educ. Ctr in Bui Branco. It's Cecilia's Birthday + was also Tabes.

The event is really cheerful. Churrasco; beer; + lots of dancing.

I get to meet practically everyone in the project, + interact with a few exceptions.

Fernando - is very serious, rarely relaxes; reminds Beth (+ me) of Laurenz.

Andria - as usual dancing + singing but not interacting closely with anyone.

The young ~~men~~ men: Luis, Nelson, Paulo Cesar, Marcelo, Eduardo, Zama + rarely Zik. They dance alone,



14 Feb  
Tues

with each other; with women;  
without women. They do line  
dances.

The girls were all excited @  
a new dance lumbada which  
only a black Edue. woman, Rita  
could do. She was overweight,  
was little & could really  
move. I danced with several  
of the young men. But could  
hardly get the beats.

These men were great because  
they displayed so much, but also  
enjoyed using their bodies &  
the rhythm.

Synval w/ reintrod. — very  
serious; just turned 40  
has 2 children.

Otávio now married to 16 yr old Tania  
Both very religious; like Jares &  
Admar — No dancing.

Reintrod. Luis — still displaying  
Marcelo; Paulo Cesar; Jares; Nelson.  
Young & energetic.  
Jares is broth. to Zik & Zama.



14 Feb  
Tues

Their mother (parents) had 10-12 kids.  
Their father is 71; mother 57.

Two of Jones bros. work with  
Ecology (Jadiri & Jamison —  
neither are present).

The Educ. crew includes Rita —  
large black & with lots of rhythm.  
Percilia — also large & black  
Lonia — black & thinner (later  
serving cachaca).

Andressa had made another of  
her famous sheet cakes &  
Jones did the churrasco.

I went back at 10<sup>00</sup>.



15 Feb  
Wed

15 Feb 89

Up at and in the forest @  
0830 hours after slow  
organization. We find Poco  
Reguero group ("small lake") but  
they're in the middle of an  
encounter with 2° Agua. It  
turns out that the 2 males of  
2° Agua kicked the adult ♂  
of Poco Reguero out of his group  
shortly after 2 of his SA  
sons (?) (or at least 2 ♂♂)  
left the group.

This Poco Reguero is still  
unstable and its males are  
from ~~Poco Reguero~~ 2° Agua.

(The 2 males that left  
Poco Reguero are found at  
the house the next day  
fighting with ♂ Niko who  
is with ♀ + had to <sup>be</sup> pulled  
from his reintrod. site). The  
2 males had been missing for  
a few weeks). We stay with  
the encounter + I record  
some vocs. But leave finally  
@ ~~1030~~ 1030 + find



15 Feb

Wed

Group Cacador, about a 20' walk.

The weather is clear + sunny + warm but not miserable.

We start our first Playback @ 1130 hrs. The group responds

v. well to the playbacks.

They LC + approach the speaker for LLC. But are quiet +

approach for LC. Zama thinks

They don't vocalize for LC because they don't know if it's inter- or intra-group.

They don't respond to the control but there are a few SCs after the SC.

We try a separate playback of LC after the full experiment.

The animals respond the same way.

They are quiet + approach the speaker.

We finish + get back to casa @ 1530 hours.

Before dinner I go thru the data with Zigue + Zama. I later speak w/ Otávio +



15 Feb.  
Wed

the others about a possible schedule for us.  
I keep being astounded by how  
reasonably I do in Portuguese.

Zigue & Zama & I sit down  
late to make a copy of  
the Play back tapes.

We're all v. tired when we  
finish.



16 Feb  
Thurs

16 Feb 89 -

Awake @ 0530 hrs. Take a long time getting organized, especially since I try to PB the new composite tape to NICO's group to ensure that it works with the speaker.

It is surprisingly weak but we decide to use it anyway. (Turns out that the house is much noisier than the forest because of running Hrs; chickens; people etc.)

Then we start down the road w/ the Tomate fusca. It has no alcohol. Zik + Zama organize to fill it with much disgust + problems.

We finally get into the forest by 0830.

And it takes us 30' to find 20 aqua.



16 Feb  
Thurs

Things are pretty wet on + off the trails. We sink into mud periodically, but it's nowhere near as bad (so far) as it could be.

I'm already feeling more comfortable in the forest. My footing is surer. I keep thinking about Jim Dietz' troll whose role it is to bugger things up + especially to trip me. I'm doing well keeping up with Jama + Zik.

Another sunny clear day. No rain since the 1st day here.

20 Aqua is one of the groups with 2 actively reproducing ♀♀. One female "To" has 2 week old young on her back. We are periodically able to see her nursing. It's lovely! She's moving more slowly than the others, for obvious reasons.

The other breeding female T<sub>1,4</sub> is often invisible during scans, far in front of group.



16 Feb.  
Thurs

The group is really large with 5 juvs  
and a subadult + the adults.

We begin experimental PB @ 0930 hrs.  
The 1st PB of the short call twice  
was much too weak at the  
distance of 20 meters. We  
weren't sure the animals heard  
it, so I decided to play it  
again after 30', and used the  
3rd scan after as the 1st  
scan before the playback.

The Playback is at a shorter  
distance where we're sure that the  
animals heard it. Altho the  
sound is clearly inferior, I  
decide to finish ~~with~~ using  
the same tape for consistency.

We finish @ 1400 hrs  
+ by the time we get to where  
we might move in on another  
group, I decide that it's  
too late to bother.

We return home by @ 1500 hrs.

Meet Beth on road before house  
+ hear story of the 2 Poco Pegueros



16 Feb Thurs

males that came to the house  
+ fought with ♂ Niko.

The ♂ has a seriously  
cut lip + a cut on the  
hand.

I chat with Beth + with  
the other people singly + together.  
Fernando is in Rio getting  
the new Kombi + thus Beth is  
formally in charge, but  
I decide to take the town  
meeting approach + get  
every one to agree to the best move.

We agree before dinner to  
release the 2 males + move  
Niko's group. But I insist  
that everyone think of any +  
all ideas.

Zik, Andrea, Otavio, Loma,  
process the animals — They  
have no wounds + are in  
good shape. 2 ♂ w/o a  
territory!

Dinner is late + we  
continue the discussion +  
decide to build a viveiro at the  
new educ. center for Niko's group.



16 Feb Thurs

I took responsibility for it  
since according to Belk, Drouin  
said we needed permission from  
the DN in Brasilia to move  
Xuxa, the ♀ who has been at  
the house 2 years now.

Fernando arrives late at  
night with the new  
Kombi.



17 Feb Fri

17 Feb 89:

Up @ 0530 + we leave the house @ 0700. Our 1st group is ~~the 1st group~~ <sup>Poco Papano</sup> + Zigue switch roles. Zigue is to do the ~~playbacks~~ scans + Zuma the playbacks.

The weather is beautiful, sunny + clear + the forest feels super. We make contact with the animals @ 0745. I hear them 1st!

The Playbacks go very smoothly. A few spines, some mud, but no hills.

We exit the reserve during the observations since the animals move to a neighboring fazenda.

Finish observ. @ 1140 + head back to the road.

Fernando was supposed to leave a car for us to get to our next destination.



17 Feb

Fri

No car. So we walk down road to entrance to the trail after having a bit of lunch.

We're looking for The Grupo do Carlos. Zama tries to pick up their signal several times without success. We cannot figure out where the car was supposed to be.

Zama finally gets a signal & we find the group reasonably quickly. Neither of them had wanted to pursue the 2nd group but I thought that we ought to try.

Rain threatens. We manage one PB before it starts to pour during the second set of intervals. The rain actually feels wonderful since it cuts the heat. We quit & return to the ~~area~~ road. Still no car!



17 Feb.

Frid

We walk to the gate looking but no car at the gate house either. Zigue had left a note at the head of one trail. Hadn't helped. He keeps saying that it's a 3 hr. walk to the hdquarters.

We wait at the gate house for a while + then decide to start walking. It's getting hotter again. Janilson shows up within @ 15 minutes with some story about how Fernando was at the Educ. Ctr. ....

So we're back by @ 15<sup>30</sup> hrs, a little too early for my taste. The house is quiet.

Jair's arrives looking exhausted. He + Synval spent the entire day building the viveiro at Boi Branco for Niko's grp.

He'd been waiting for Andriana to show up with the animals, but she hadn't so he returned home.



17 Feb

Fri

Cecilia + Eduardo arrive somewhat depressed. They still haven't managed to catch a *Thamnobates*.

They also look totally wiped out. They've tried just about everything including mist nets, but the animals move high into the bamboo thickets.

The ecology crew then arrives — Otavio, Jodir + Jamilson (latter 2 are Jares bros). Then Andreia arrives with whole Perntro. crew + 4 animals.

The Panscyon group's radio had gone out + they spent the whole day trying to find + then trap the animals to get the radio changed.

Andreia's team (Chuis; Marcelo; Paulo Cesar; Jabeo [Zigueo bro]; Nelson + the intern Rosanno) are totally wiped. They tell tales of eating lunch + then climbing the hills in the mid-day heat with  $\frac{1}{2}$  the



17 Feb

Fri

crew vomiting their lunch due to the strain.

But they found + returned with the group.

They had started looking @ 10<sup>30</sup> hrs and finally found them 2-3 km from the box @ 17<sup>30</sup> hrs.

The Riverbank group had been producing LCC about 2 hrs before they found the group.

The <sup>P</sup> transmitter was only ~~the~~ audible from about 20 m.

I am very impressed with the energy of the Reintrod. team. You've got 5 men in their late teens, early 20's, who even after the most exhausting day are full of energy; playing with each other, dancing around.

They are also started as is Cecilia + Eduardo + the butcher looks as tho it



13 Feb,

Fri

had gone thru the wars after they all had something to eat. Watching

5-6 people stuffing themselves over the kitchen table with ~~food~~ ~~crumbs~~ flying everywhere was amazing.

The energy was electrifying.

Before dinner Zigue makes some caipirinhas + we finish what little is left in a bottle of cachaca. Zigue + Cecilia both like their drink!

Dinner is very late + with The Ecology crew staying over to do early morning observ. at nest boxes.

Fernando shows up @ 10 with the new Kombi + some beer. We all Cecilia, Zigue, Fernando + I have a beer together.



18 Feb  
Sat

18 Feb.

Up and out to do Grupo do  
Carlos ~~is~~ ~~the~~

We find them @ 0745  
in the middle of an  
encounter with a not very  
habituated group Grupo  
do Reunião. We hear  
the encounter long before  
we see them.

According to Zama, both  
groups are outside their normal  
range & are within the Calcario  
group range.

The Encounter continues for  
@ an hour & we suddenly lose  
the group. But Zama had  
predicted that they would  
get back to their normal  
range by climbing the hill  
& going over it and around.

We locate the group again  
after @ 20' — at the very  
top of a hill. My 1st  
bad climb.



18 Feb

Lat

The hillside was swarming with  
spiny palms, roots, vines &  
was very steep.

The group eventually end up in  
a tree near a main trail which  
made it a little easier to work  
with them.

Started our scans for playbacks

@ 0930 & finished with group

@ 12<sup>20</sup>

I manage to fall upside  
totally at one point & later  
sink up to my knees in mud!

I keep thinking of Dietz's  
lecture to me about the little  
man\* who tries to trip you up &  
trick you and generally makes your  
life miserable in the forest  
to prevent your feeling at ~~the~~  
home there.

So I keep smiling as yet  
another spine lodges itself somewhere  
in my body & I feel as tho I'm  
bound to sink into the mud.

\* I have told Zama & Zigue  
about the "o homen da mata"



18 Feb.

Sat

Two

~~the~~ interesting points about the playbacks w/ GC. The last 2 calls were SC + LC. I thought with SC first, but it was the reverse & I couldn't understand why the ♀ responded so strongly to the SC & hardly at all the LC. As it turns out she knew what she was responding to.

Also after the LC PB, she & the group moved from a tree in which they were resting & the juvs. playing @ 100 m beyond the speaker & I thought they were about to get involved with another encounter.

But after not finding anything they returned to the exact same tree; about 100 m. away.

Also, the ♀ was very nervous. She had just (within a few days) lost her mate, the breeding ♂, who had something wrong with his forefoot. And she was clearly leading the



12 Feb Sat

group during the encounter.

We return to car & drive to another trail - head to meet Jadir. He shows up immediately & says that Tres Machos, our next group, may have been fairly close to where we were with Grupo de Carlos, but on the other side of the hillside.

Jadir thinks that Tres Machos could be heading for an encounter.

We have some lunch & start heading out to find ~~5th~~ Tres Machos (3M). It takes about an hour of long but mainly flat walking on the trails (2 hills).

We manage to get 2 PB done with them in some flat swampy & very closed habitat. Takes us another 40 minutes (including  $\uparrow\downarrow$  hillside on trail) to



18 Feb  
Sat

return to car. We are totally exhausted + Zigue has some bad blisters from his new boots.

It's been fun however watching the 2 bros work together.

They rib each other @ being lazy; not working; being weak.

Jama — I'm much more impressed with him. He works hard + knows the forest + groups. Turns out that he is fairly religious (Their father is important in church matters — almost a pastor); doesn't drink; has one girlfriend between SJ + Rio Bonito + is fairly serious. However, he comes to conclusions too quickly about everything. Zigue — Quite different. Incredibly attractive to women. Not religious. Likes booze + possibly in conflict with his father whom he rarely sees.

Zigue's not, however, doing fantastically well



18 Feb Sat

at university. Says that he failed calculus + chemistry.

We returned to the house by @ 1700 hrs. There are 4 animals from Ponsaynor to be processed. The adult ♀ has aborted in the cage + the ~~aborted~~ 2 who are immobilized look thin, dehydrated + are covered in ticks, probably because they are running on the ground a lot. Everyone is feeling good, but the abortion really puts a damper on the atmosphere. We change the radio on the adult ♂ ~~which~~ (which apparently had gone out almost immediately after the release), + leave the group.

Before the processing Zama starts cooking, another example of that boundless energy. Idmar + Jares have gone for the weekend + Daniel is our responsibility. Zama simply



goes ahead + starts cooking  
before anything else. He  
says that he's starving, but  
as it turns out, we don't get  
to eat until after the  
processing of the 4 Penscynor  
animals, @ 800 PM.

But he certainly knew what  
he was doing in the kitchen.

Andrea, by the way, had used  
the Walkman + speaker to  
bring the animals in more  
closely. It helped some  
in trapping the  
animals.

19 Feb Sun

19 Feb Sunday

We can only work  $\frac{1}{2}$  day  
because Zigue needs to get  
to S.J. to get clothes + see  
his family before catching bus  
to Belo Horizonte to attend  
Biodiversity Conf.

We go out to finish the Tres Muchos  
group. Make contact @ 0749.

There is lots of song calling going on.

Zama first thinks that there  
had been an encounter, we  
then realize that it is still  
ongoing. With a group Casa

Caida which is not very  
habituated. We hang  
around and hang around. I  
start recording vocs. while  
Zigue + Zama stay pretty bored.

Zama also had picked up the  
signal of a male who had  
been from the Casa Caida group  
but had left — but  
we never see him.



Sund. 19 Feb

The encounter continues with not only the juvs playing, but with the adult ♂ of Casa Caida coming in very close — chasing a juv/SA from 3M.

3M has new young about a week old & the ♀ has been transferring them to the <sup>2</sup> adult ~~adult~~ males.

The adult male of Casa Caida, T34, also come within 3 m of the 3M adults & infants who were clumped in a group.

Two SA ♂♂ (T34, T34) from each group started playing — again very close to the adults & new infants.

I continue to be impressed with display quality of encounters & their functions. The durations of encounters point to their having a positive social function, permitting meeting among families, and opportunity to learn neighbors & potential mates in future.

Encounters continue for too long to be solely a method of determining dominance or assuring locations of groups.

The adult male of Casa Caida & a SA from 3M (T24) end up within arm's reach of each other. T24 is chased briefly.

We do 3 scans between 09<sup>10</sup> — 09<sup>25</sup> but quit because the encounter continues & we have too many ongoing LCs & LCCs.

I spend most of the morning recording VOCs. We leave about 11<sup>15</sup> to return to house. The encounter was a minimum of 3½ hrs long.

Andieci arrives at house w/ 2 monkeys. The two were in the Pencynor box when she arrived to release the P. group.

It is clear that one animal is P4, a SA ♂ from Pencynor; but



The second has a tattoo & no one can remember or has a record of what we think the tattoo is.

We go thru list of all wild animals & come up with only 2 possibilities of who she could be. But it isn't clear if she's a WB or CB animal. All v. mysterious.

It's decided that Andreia has done enough immobilizations to have a very few of us process the animals.

Zigue Zoma & Andreia all go into Silva Jardim & I am left alone at the house — a first ever event. It's very peaceful.\*

Beth shows up & starts cooking. Andreia eventually comes back & we process the pair. The male is in better shape than his father, less dehydrated & few ticks.

The ♀, it turns out, is a WB ♀ with a broken leg

\* I work on data & continue reading Tom Wolfe's Bonfire of the Vanities —

Final  
19 Feb

that was released with the fivebucks group after the breeding ♀ died in late 1987, early 1988. But this female had disappeared almost immediately & beforehand Jim had at least wanted to give her a collar because of her light weight. (under 500 g).

Dinner is very quiet with Andreia Beth Rosanna & me only. Rosanna is given wash up duty & continues to be raged by all concerned.

The night before Zoma Zigue Andreia had taken to calling him bischo (animals) & told him that he had to follow their orders.



20 Feb  
Mond.

20#89

At breakfast I twist my back out a bit, but want to finally finish 3M — so  
Zigue, Rassano + I head for the group. They are at a distance still, with a few hills up + down. Make contact @ 0830.

The habitat is closed + swampy. We do however manage to finish the Playbacks but cannot start scans until most of the group is reasonably easy to see. Since they've been moving, it's hard.

Rassano does PB + I do adlibs but I become increasingly pained from my back & I can do less + less. Zama is incredibly sensitive + careful. He eventually takes all of my heavier gear so that I'm carrying little. By the time we get ~~home~~ ready to return



home I'm carrying nothing.  
I have trouble getting in +  
out of the car, and can  
barely shower + change  
clothes. I pack + rest for  
a bit before Beth takes  
me to Rio.

Almost impossible to  
get up out of bed after  
resting.

But Beth, Andrea + I  
drive to airport. I can barely  
get out of car + stand up  
straight! Thank god Rio  
airport has carts!

I end up sitting next to  
2 Brits one is Longman  
Publishing Co's Brazil rep +  
has lived in Rio for 14 yrs.

The other is from Cambridge  
+ writes English language  
texts.

We have a nice short  
ride + they help me off  
the plane.

20 Feb  
mond.

Jody Stallings + wife Kathy  
meet me at airport +  
buy me some painkillers.

We head to cocktail party at  
UFMG for the Congress.

Two things please me (1) how many  
people I know (2) how well I  
can manage the Portuguese.

Participants in the Congress  
on Biodiversity include Coimbra,  
Mollison, Jo Gypson, Mittermeier,  
Sonia, Keith Brown, Kent  
Miller, Herb Rafarel (FWS),  
Gustavo Fonseca, Kent  
Redford, John Robinson,  
Claudio Padua, Ilmar,  
Celio Valle;

From the GLT Proj. is  
Ceclia; Eduardo; Fernando +  
Zigue.

I drink a bit + with the  
pills feel quite a bit  
better. We return to the  
hotel @ 900 PM +  
everybody sits down to have



mond  
20th

some more beer before dinner  
but no one seems to move.

I leave @ 10 PM to start  
working on my presentation  
(for 10 AM) for the following  
day. I decide to  
do it in Portuguese, if  
I can manage it!



21 Feb  
Tues.

21 Feb 1989

A bit difficult standing up  
after being in bed all night.  
But my back eases up as I  
go thru the day.

I get some acetate + pens from  
Jody to do a Portuguese  
outline of my talk on  
Pantodungão / as a conservation  
strategy for mammals.

I have translated @  $\frac{1}{3}$  of  
my talk into Portuguese +  
decide to do it extemporaneously.  
Anthony by lands helps out with  
a word or two.

I actually manage to  
complete it in about 30 minutes  
+ take a few questions from  
the audience.

Later both Celso Valle +  
Combra tell me how well I  
did but say that I should  
have it all written out  
beforehand like Mittermeier.

Turns out that Mittermeier  
always has a Brazilian



Tues  
21 Feb

correct + type up his paper  
before he gives it - I get  
lots of other compliments  
on my talk.

And right afterward ~~get~~  
do an interview w/ 2  
journalists (O Globo - Jornal  
do Brasil), again totally in  
Portuguese + without any help.

Then lunch w/ Kent R. whom  
I haven't seen in a long time  
and a few PM papers followed  
by a golden headed lion  
tomatin mty run by Mallinson  
which gets a bit heated - Mty  
attended by Mallinson; Delk; Ibsen;  
~~Mallinson discusses~~ Coimbra;  
Claudio Padua; Alfredo Longguth;  
Anthony Rylands + M. Hermsen.

Anthony is made a member of the  
group + there is some argument  
about whether Ilmar Santos  
should be too. Jeremy  
suggests Field Advisors + I



21 Feb 89  
1 Wed

agree, but Mittermeier argues strongly for him being a full member + the majority agree with him.

We discuss ~~off~~ Alfredo's concerns about the management agreement. And several movements of captive animals that need to be decided upon.

We then start a discussion of Una. Anthony Rylands explains why he wrote a critical commentary on the Dietz's proposal. Most of his comments are technical + trivial: ① The proposal was not written strongly enough to raise money ② They didn't cite him correctly.

He ends up saying that he agrees completely with their objectives and goals. And everyone agrees. We all say that it's time to get it done.

I bring up the point that we agree on the problems



21 Feb 89

We need to buy up land,  
get rid of squatters, secure  
the reserve.

We can get the money. We  
need to find the people.

Everyone agrees. Jo Gipp  
suggests ads in the newspapers.

Mtg. breaks and Fernando asks  
if I can come out to speak  
with the Secy of the Environment  
for Belo Horizonte. He oversees  
the zoo + wants GLTs.

We talk about several issues  
including getting GLTs to the zoo  
their 30th anniversary (the zoo)  
+ a conference that he wants  
to have.

Take the bus back to the hotel.  
To dinner with Coimbra,  
Mullinson + Gipp at Alpino,  
the German restaurant where  
we've been before.

I have fish from Rio  
São Francisco — suribim —  
n) Coimbra.  
To bed —



22 II  
wed

22 Feb 89 Wed

Up @ 0930 to catch flight to Rio. My back feels a bit better. Arrive in Rio & am met by Beth + Zigue.

The trip takes a horrendous 8 hours because of an overturned truck on BR 107 south of Rio Bonito. The truck was full of groceries (Mayonnaise etc), & was essentially in the middle of the road. The back-up was 3 hours long in heat & pollution + exhaust from trucks. My back got worse & worse.

By the time we arrived at The Reserve I could hardly walk. In fact I did try to walk a bit after the 3rd hour because I was becoming so stiff.

Had lunch & spent most of the rest of the day in bed, reading trying to see if I could get any improvement in my back.



By the time we arrived, & had lunch, it was too late for Zigue & Zama to go out. And in fact Beth had asked Zama to meet us @ 10<sup>30</sup> at the Kid Dollar gas station near Rio Barito. He had waited & eventually gave up.

23 Feb Thurs

23 II  
Thurs

Back still bad in AM. Plans are for Zigue & Zama to do Duas Lemelas group & come back to house in time for meeting at Boi Branco. Jody & Cecilia arrive in early AM but without Fernando. We don't know what has happened to Fernando.

By 13<sup>00</sup> no sign of him, so ~~Zigue~~ Zigue & I pick up Jody & Cecilia, Zama, & the Ecology crew to go to group meeting.

At mtg every one explains what has been happening in their part of the project & then I and Rossano each give a little talk about ~~the~~ our research. Mtg ends @ 15<sup>30</sup> hrs. My back is no better.

Return to Casa with Cecilia & Jody & Zigue.  
Quonico also around.



We drink Scotch; then beer;  
wait for Herb Rafael of FWS  
to arrive @ ~~20:00~~ 20:00 hrs  
but then see when he doesn't  
appear (Dionisio + Zama  
went to pick him up).

We stay awake waiting — but  
all exhausted + he finally  
arrives @ 10<sup>00</sup> PM. I go to  
sleep pretty soon thereafter.

*He had arrived from Buenos  
Aires — plane 3 hrs. late.*

*Fernando also showed up.  
He had missed his buses  
because he had brought with  
him a fuel tank from a city  
near Belo Horizonte. He had not  
driven his motor cycle.*

*He arrived on the asphalt  
right after we all passed by +  
he ended up walking 3 hrs  
from the asphalt to the house.*

24 Feb Friday

24<sup>th</sup>  
FH

Explain most of project to  
Rafael + send him out with  
Zigue + Zama. Eventually to  
meet up with Beth @ 1130 hrs.

*so he can see The Educ. Program.*

Talk w/ Dionisio about

- ① What's happening with IBDF
- ② Translating our progress rpt  
and proposal for 1989.
- ③ problem with bat project,  
(Rector of Univ. Rural is  
bat expert + wants to work  
w/ Reserve).

(Later I speak w/ Jody and he's  
not as keen on Jardimilla  
as previously. Thinks that she is  
too spoiled.)

Dionisio will get the progress  
report translated and tell Fernando  
how much money is needed.

IBDF possibly will be creating  
a higher level position than  
Reserve Director + fill it



24 Feb Frid.

with politicians. But They don't yet know the outcome.

In the P.M. Rafael comes back @ 3 + Jody is around + we talk @ common issues.

One subject is Jack Frazier, apparently now ~~at~~ with the new University course in Costa Rica about to be divorced from Susanna Salas.

Rafael is a very rigid opinionated guy with little joie de vivre. He likes to complain about people, organizations and situations.

The whole ecology crew returns to the house to do a nest to nest observation. Fernando brings us back some Scotch, Pinga + beer;

For dinner Jody Cecilia + Rafael go out looking for

Kannabateomys. I stay back. We all eat @ 1900 so that everyone can get to sleep.

Jody Rafael + Cecilia return after 8 PM + we stay up + talk a bit.



25 Feb '89 Sat.

Intent is for Zigue, Zama +  
Lorano to do a reintrod.  
group today + another wild  
group tomorrow. They go  
with Luis to Jersey which  
they complete, but then  
go to Pensylvania where the  
group flees at the drop  
of a hat. They then end  
up trying to find Niko's  
group which disappeared the  
day after release + whose  
signal they can't find.

They come back exhausted very  
late in the day.

I work on data during day +  
have a long talk with  
Fernando about being an  
administrator. needing to  
keep in touch with people;  
needing to take shit; listening;  
He eventually talks a bit  
about the problems with Beth.



My sense is that he is getting on with most people better than Beth suggests. Lots of the complaining is small stuff — but he tends to be more rigid & not to listen enough.

He doesn't seem very happy, but somehow that may be a permanent problem.

Daddy at lunch talks a bit about the problems from his perspective. Fernando started out reading him the riot act about how he should behave. But their relationship has improved.

Cecilia is getting along with most people except Beth isn't interacting with her. Most recently I'm sure that it is because of Cecilia getting on so well with Zigue.

25 Feb Sat.

Turns out that whole project is invited to a party for Andreia's niece's birthday (she's 3 yrs). Beginning mid-afternoon needs a complicated series of steps leading to all of us going into town, (including 2 Educ. people) in 2 Kombis & Beth being very angry at Fernando because of his lack of coordination ability.

I finally tell her that I think she's hurting the project by being angry all the time & hurting herself. And that she needs to find methods to diminish the importance of her anger & frustration for her & everyone else. I tell her that she is affecting project morale negatively. And that she has more important things to do with



her energy than waste  
it on being angry.

We put telephone booth  
+ I telephone Jan + everyone  
else tries to phone  
friends / family. (Jan's B'day)

Go to Andreia's where  
there is a huge crowd  
of children + family,  
but most outside  
adults seem to be CVT  
Project people.

James + kids are there;  
Jabes + girl friend;  
Paulo Cesar; Luis; Marcello  
+ Nelson all show up  
but no ecology people  
+ only 2 Educ. people.

The party is all held  
outside in the courtyard +  
Andreia has made Jan  
enormous layer cake +  
has decorated the whole  
inside of the house. The

25 Feb 89  
Sat

niece, eats it all up +  
there's picture taking, music,  
singing, + loads of children.

Seems an important event + lots of  
energy expended.

I speak with Jares for a while @  
the Beth / Fernando problem.  
He suggests that it is difficult  
+ that he has been helping  
Fernando insofar as he can.

Jody + I go for pizza.  
Beth goes to call American  
boy friend Scott in Philadelphia.  
She comes back crying -  
Scott has broken off the relationship  
+ won't be visiting Beth in April.  
I organize a car + take her  
back to the Reserve. (My 1st  
driving). She is — (needless  
to say) — upset at the loss  
of her latest fantasy lover.  
I talk with her, she admits to  
being a virgin, Catholic, + in love w/  
Andy Baker for 2 years.  
She's still clearly attached to Zigue as well.



Sunday 26 Feb 89

Work at home most of day.  
Zigue, Zama + Rossano  
go out together.

Zama comes back + cooks  
dinner, but everyone leaves  
for Silva Jardim  
except Fernando, Beth +  
me who have dinner  
together + discuss problems —  
Neither speaks to each  
other, but only to me.



Monday 27 Feb 89

Jody + Cecilia go out to see if John Robinson made it. He did after sleeping in a seedy motel overnight + catching a \$30.00 cab to the Reserve. We have some coffee + The four of us go out in front of the house to go thru Jody's bamboo patch. J + C have found some patches w/ flowers. Not clear what kind of Bb, or if the flowering is seasonal.

Jody points out holes into Bb near base where the *Kannabateomys* burrow, stalks they have cut off pathways they take).

We see one animal which Jody + Cecilia try to knock down out of the Bb — unsuccessfully. I have the feeling that they are getting a bit too frustrated w/ not



Cecilia  
stops smoking  
2 IV 89

27 Feb 89  
Mord

catching only animals.

Before getting out to see Bb  
rats:

John + Jody arrive w/ the  
mayor of Silva Jardim + a  
journalist (who speaks better  
English than my Portuguese, but  
who is out of practice). The  
mayor plans to help improve the  
road + Jody + I give interviews.  
Mayor with a crutch + goney leg,  
driver, journalist +  
I guess, hanger-on.

In the PM we go out looking  
for *Kannabateomys* with  
Jamilson helping out.  
Sylvia is a former trapper (just  
turned 40) + is making  
traps for Jody + Cecilia. One  
trap is cylindrical + could be  
used to plug burrows. The  
other is shaped like



and ~~it~~  
allows the



Dinner is with whole crew since  
it's a nest → nest  
OCO → OCO night  
with the ecology crew.

Dishwashing is extremely complicated  
with so many people eating +  
so many washing up.

27#89  
mond

Rats to ~~form~~<sup>make</sup> a nest —  
Jody thinks that nests are  
limiting factors in the distribution  
of *Kannabateomys*.

The evening walk is lovely —  
across the Vietnam bridge  
in front of the house.

Jody sees a capybara the  
next day in the swamp.

The BB is very open +  
clear between mounds.

The flowering doesn't seem  
to be serious yet —  
of course, we don't know if the  
BB is native or introduced.

Earlier Jones had asked to  
speak to me alone — with  
Jody helping out. Basically,  
he said that Beth is one of  
the project's biggest problems.  
Won't cooperate with Fernando;  
very hard + frightens people;  
with her self-righteousness.



28 II 89 Tues.

28 II

Jugie; Elizama + John Robinson +  
I are out together +  
followed a reintroduced group  
to do PB. We pass an  
agouti in road who first runs away  
+ then towards us.

The heresi group stays near  
their nb + comedor platform  
during our whole observation  
period. The group includes  
a new (1988) female from  
CPRT (unclear whether WB or CB),  
an adult ♂ + 2 juvs.

They don't feel like a  
very integrated group. The  
♀ is a bit spooky + the  
♂♂ adapted. The juveniles  
are identical ages but  
look different, w/ the female  
younger.

In response to most  
intense PB, the animals  
don't move much but do  
vocalize.



Zigue suggests That their response was better than that of the other 2 Reintro groups that he + Zoma did — Jersey + Seattle.

John R. gets some terrific photos of animals really close to him.

After the PB series, I played some clucks to them + initiated a series of LC + clucking. But still little movement towards the speaker.

Clucking is a contagious voc. Almost always provokes at least 2 animals, sometimes more to voc. together. They don't need to be close.

Towards the end of the clucking series, a juv. rasped loudly. We hadn't

28 II 89  
Tues.

heard any rasping until that point.

We returned to the Reserve to have the CRT meeting.

I met w/ Fernando beforehand + made a few suggestions about how to run the meeting — let everyone talk about what they have done + what they will be doing next week. Congratulate people on good work; exciting news. I go thru Fernando's list of agenda items.

The mtg included me, Fernando, Beth, Jody, Cecilia, Zigue, Otavio, Andreia.

Beth got angry at Fernando once + I reined her in. Otherwise Otavio, Andreia, Zigue + Joes all made good suggestions that were accepted by Fernando.

Fernando talked a little too long, but otherwise the mtg felt ok.



Otauro talked for the 1st time & really contributed.

Then dinner with whole crew & John Robinson & Elizen from the 1st Reintrod. who is now at University & according to him doing very well.

I encouraged Elizen to apply for an internship at The Reserve & consider going on in Biology. Told him about Dietz & Univ. Md.

Beth has been preparing for a course she is supposed to teach on Th/Fri.

Supposed to include 9+ local teachers & to concentrate on environmental / conservation education. She's been putting together aquariums & terrariums to explain ecological concepts & food web concepts.

28 II  
Thurs

As part <sup>of the work,</sup> she found an enormous red-brown furry caterpillar that looks like an infant G.T. She touched it & it was toxic to her skin.

She also had a tiny coral snake beheaded.



1 Mar 89 Wed.

Left late to find Riverbanks so I could summarize data a bit. They are apparently in the banana plantation on the other side of the hill from their box. We go up the hill thru barbed wire about 4-5 times; thru spiny palm; really thick young 2nd growth.

Reach top of hill + keep following signal down the hill until we're at the pond just below Riverbanks box.

The animals had apparently travelled all the way over the hill from the bananas + back again.

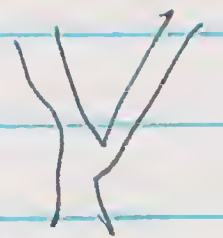
The other side of the hill is adjacent to forest where Percey is + when he climbed the top of their hill, the two groups apparently vocalized at each other.



Otherwise, Riverbanks doesn't seem a very stable group. The ♀♀ are the youngest ones from the Riverbanks group probably almost 2 years old.

The ♂♂ are from Skansen and seem very young also. They are, however, travelling as a group!

It took us ~ 1 hr to find the group.

The group was in the  of a tree, with the ♀ R7 playing with them all.

The group responds to the LC w/ movements towards the speaker + some vocal responses. The response fades w/in 10 minutes.

long play bouts between

Mar 1 '89  
Wed.

R7 + other animals, including R6.

About noon; the owner of the fazenda ascends to where we are w/ 2 men; machetes; + a dog.

The woman taking care of the house below reported that 4 men (!) with arms had gone up the hill. Juma as usual thought this was great fun — Devra being ~~thoroughly~~ mistaken for a man.

Continued playing by R7, R6 + the youngest Skansen ♂.

T4 The apparently elder ♂ seems reluctant to join in — perhaps to conserve energy. However, he later shows that he can move very quickly + reasonably efficiently.

T4 also exhibits coprophagy.



Quite a bit of the play has been in the Bb.

I did some recording of the group, mainly of ticks + chirps during play.

We finish w/ Riverbanks @ 1450 hours as it begins to rain. We send Rossano back to get the car + wait by the owner's house until picked up.

Return to house.

Beth had gone to pick up Andy Baker in Rio.

They were back but Andy was already in the forest w/ Otavio, having trapped some monkey.

Andy organizes the processing of 3 animals from Grupo de Frente.

Wednesday  
1 Mar

Andy trains Otavio with Zigue helping out. Otavio's biggest problem is using calipers + a ruler, reading numbers.

Everyone eats early before we finish.

After dinner Andy + I talk for a long time about Reserve issues + then his family problems. His mother is cracking up + his brother had a relapse while they were in NY that put him in hospital w/ pneumonia. Then he came out but fainted.

And Andy's mother continues to feel guilt about his father's death + his son's "gayness" + subsequent AIDS diagnosis.



Thursday  
Mar 2nd.

2 Mar Thurs.

We head for Penscynor for PB studies. Arrive at site @

0800 but don't make contact with group until 10:20.

The group has moved uphill several hundred meters. They are spooky and avoid us; spending a lot of time low and/or on the ground.

When we played the long call the animals stopped - LC'd in response, but didn't change direction. They moved uphill.

I tried to record their responses but the noise from trucks on the road was incredible + then later thunder.

We had a strong response to using LCC; they vocalized + moved in the direction of the speaker. They also only used the LC in response.

The last two PB included Andreia + Paulo Cesar; I was having



2nd Mar  
Thurs

a terrible time getting the equipment to work + lost several scans. I also had difficulty trying to record + playback at the same time. I became very frustrated.

At one point I was using the wrong recorder to record + couldn't get the Record button to work. Turned out that I was using tapes that had been protected + the Record button refused to tape over them.

Major problem was with the speakers connecting cables which had to be fiddled with in order to get an amplification. We were moving also thru thick scrubby habitat near the top of the morro. And no one had mentioned that the cables weren't always working!

We finished @ 12:30 + went out to start Frankfurt. Frankfurt included 1 ~~young~~ young females from River banks

and 2 young males from Frankfurt.

We reach the box @ 1335. The animals are resting in a tree @ 30 m from their box. They're in a tree over a moving stream (difficult to <sup>sound</sup> record). They eventually move back to their box + go inside + in + out. Then the 2 playbacks: ---

We get 2 PB done, but on the last, the control, I almost don't let Zigue do it because it is raining softly + it isn't clear that the rain won't be too ~~much~~ nervous-making for the monkeys, + too loud for them to hear + then respond.

We finish the 2nd PB + get our four scans in (all "box") + return to house.

Before dinner Cecilia + I go walking through the Bb on the other side of Jane's house + road to try to find a Bb rat.



3rd March 89 Friday

In the AM we went out to finish the PB on the Frankfurt group.

Arrive @ 0742, but the animals are some distance from the box ( $\sim$  400 m). (On the way, Zigue sees a juvenile Coendou sitting in a tree)

Although the equipment still causing problems, we finish the group by @ 0930. (LC + LCC). The group responded to both with movement but some delay in the vocalizations.

Beth had started her course + I decided that we should stop quickly at Boi Branco to see if she needed any thing + how things were going.

She had enormous amounts of help but only had 30-35 people instead of the 97 she had expected.

She was pleased that I had checked with her and suggested that she was giving out awards at the dan between 3-4 pm +



that the people would be  
interested in meeting the scientists.

At the gate to the Reserve + later  
a bit inside the Reserve ~~they~~  
there are 4 young men (Zigue knows  
one) from Campos that have  
collected some animals.

They have at the gate a  
didelphid opossum w/ 10 young  
in her ~~fat~~ pouch, a tamandua  
(grey); macaca preta (Cebus).

Two of the boys have a  
young sloth + are walking down  
the road.

They belong to a Conservation  
Club in Campos + have spoken  
with Dionisio who promised  
to meet them to accept the  
animals.

Later we find out that they  
arrived @ 0800 + had been  
waiting for 2 1/2 hrs.

3rd March  
Fri

We tell them to wait, but much  
later discover that the guard  
Celso let them in the gate +  
brought them to the house since  
Dionisio never appeared.

I ~~guess~~ am not pleased  
with Dionisio not being responsive +  
again letting the guards leave  
us with responsibility for  
collected/confiscated animals.

We leave the boys at the gate  
+ return home. Tell Fernando +  
Andy about group at gate.

We go out in front of house  
with Andy to work w/ fugitive  
group; includes ♀ w/ broken  
forearm + 2 ♂♂? No young +  
only formed @ 2 mos ago.

We find them in deep bregia  
(bregia) —

Takes @ 1/2 hr to find  
the group + we walk thru



areas I haven't been before  
in front of house.

Areas where they've had serious  
fires & needed to have firebreaks.  
I wonder about regeneration  
of forest and the direction of  
the hillsides. It seems more  
than just whether they've  
had fires on a hillside.

We find The Fugitiva group  
in very swampy area.  
Most of the time we slog  
through very deep mud  
while doing the PBs. At  
one point I am in mud  
up above my knees & have  
to get rid of my equipment.

We end up along a  
hillside before a PB &  
then get dragged back into  
mud after the PB.

We finished @ 1530 &  
returned back to house  
(@ 30' walk)

\* ♀ is an old animal with broken arm  
with 2 young ♂♂.

3 III 89  
PM

Returned to discover that  
Dionisio had not arrived &  
Celso the guard had  
"delivered" The Cebus to the  
project headquarters.

Meanwhile, Otavio was observing  
one GLT group in the banana  
patch in front of the house  
@ 25 m from The Cebus!

I talk w/ Fernando & Andy &  
we decide that the animal  
should be moved to Boi Branco  
to Celso's house for care &  
not left in the Reserve.

Andy & I go out to  
see if we can meet Beth's  
course at the dam. We're  
in luck. We're introduced  
to group & Andy mainly  
answers GLT questions.

Worked very well & I think  
that Beth was pleased.



~~I had forgotten to go  
for dinner at 6:30.~~

It's on "oco" night so  
the place is full for  
dinner.

4 III 89 Sat.

We decide to do "Z" group.  
Both Zigue + I are keen  
to see "Z". We both agree  
once we see her, that she  
is the most beautiful  
OBT in the reserve.

"Z" lives on a hillside  
with the 2 Rita/Ron ♂  
offspring + 2 infants.  
The hill is on the way  
to the dam + is isolated  
from other forest patches.  
They don't have regular  
encounters, according to  
Andrécia + staff.

Zigue thinks that it might  
take 30' to find the group.  
They are at the top of the  
hill — yet another  
morro to climb. The  
♂♂ are a little spooky but  
Z approaches within a  
few feet of us +



Then goes about her business.

Her infants were born about Dec 88 + look great.

They are locomoting independently, except after one of the PB, one of the young climbs on one of the ♂'s back.

- Zigue starts having trouble with equipment. We did 2 PB of the LC, but don't think that the animals heard it. Decide to go onto other calls + do the LC at the end if it becomes clear that the problem is the equipment.

"Z" Some interesting aspects to behavior.

① she never had infant experience before

giving birth (the ♂ did) but brought off her young perfectly well.

② During observations, "Z" begins playing with the young + RT1, the ♂ that Zigue thinks is not the breeding ♂ (Zigue saw some copulations in 1988)

Also RT2, the possible breeding ♂ came into group after RT1 + "Z" got together.

Unusual for a ~~♀~~ breeding ♀ to ever play with other animals. And in this case the ♂ RT2 remained @ 15 m from the group.

At one point group go into a Cecropia to feed on fruits. There are clumps of bean-like



fruits. The animals all  
ascend up into the exposed  
Cecropia very carefully,  
I think, because there is  
such limited cover.

We had a good response  
to the LCE, but had to  
replay the SC since  
speaker didn't work.

We redid the LC right before  
it started ~~was~~ raining +  
only had limited response.  
Really loud thundering before  
the rain which may have  
interfered with the animals  
responsiveness. They end up  
in a dense tree towards the  
end of the scans not long  
after doing a few LCs +  
approaching the speaker.

Later Zigue mentions that the

4 III 89

onset of rain might really  
interfere.

We have the heaviest downpour  
yet + all get totally soaking  
wet while racing / sliding  
down "Z"'s hillside.

After clean-up, I discuss  
possible future release  
sites with Beth.

I take everyone out to  
dinner at O'Gaucha

(Fernando, Zigue, Zana, Beth,  
Andreia, Rossano, Andy,  
Cecilia + me).

More really heavy rain on the  
way home + frightening  
traffic where you  
couldn't see.

I was exhausted.



5 March 89 Sunday

Out @ 0730 to re-do the Cacador group. Trail entrance is near the guard house.

We walk for  $\approx 40'$ . Pass the Poco Pequeno group.

Finally start to hear a strong signal + then start to hear dogs barking + voices.

Zigue + Zama hold frozen.

It's Sunday + we've probably got some hunters.

We listen for a few moments + decide not to pursue obs.

with Cacador (an appropriate name!) There are at least 2 dogs + probably several men + we ~~are~~ feel that the monkeys will be stressed anyway.

Also, Ely from Ecology group overheard some hunters talking about the fact that <sup>GLT</sup> project people.



don't carry arms + Therefore  
are easy to deal with.

Everyone at the Reserve is  
a bit nervous about what  
Ely's heard. And Dionisio  
hasn't done anything recently  
to reduce impact of hunters.

We return to the house  
(another 40') + decide to  
work with the Grupo de  
Frente — in front of the  
house.

Seems that they might be  
involved ~~with~~ in an encounter  
with the newly formed  
Viajantes group since we hear  
long calling + their radio  
signals aren't too distant.

We cross over to the hillside  
across from the house +  
start climbing.

5<sup>th</sup> 89  
find.

Takes us a very long time to  
find them + then they keep  
moving uphill + act very  
spooked by us. They had  
recently been caught +  
marked, but they also weren't  
very habituated. The ♀ was  
quiet but the 2 ♂ whirled +  
clucked at us periodically.

The habitat is fairly awful  
in places — really low  
thick scrubby 2nd growth.

But the animals also use a long  
line of Bb to move up + down  
the hillside. And the Bb  
is much more open. We see  
lots of sign of Bb rats in  
this area — freshly eaten  
stalks + openings for  
burrows.

The group gets to the  
hilltop + moves to a resting



tree in a very idyllic -  
peeling little valley with  
some tall trees. It feels  
like a mature patch of  
forest but it's tiny compared  
to the scrub + Bb on most  
of the hillside.

We do our 1st 4 scans  
seated - really thankful for  
an opportunity to sit, but  
our 1st call is an LCC +  
The animals immediately move  
to and beyond the speaker  
back into miserable habitat.  
They are very quiet + simply  
descend the hill. We lose  
them a few times because they  
are so quiet.

About 25' after PB they  
produce a few single LC.

Basically they heard the  
LCC deep w/in their territory  
+ the response was to move  
to an area of encounters.

Ind  
5 Mar 89

They got some responses from  
another group down the hill  
did some more LC + then  
turned around + started back up  
the hill. They were wary of  
us + we lost them a  
few times.

We missed a PB because they  
weren't visible + we weren't  
sure of the distance. But  
did 1 an LC while they  
were headed uphill into the  
Bb.

They turned around +  
started moving past us  
nervously. Did some calling  
but eventually went back  
uphill again, as it started  
thundering + threatening  
rain again.

We decided not to  
proceed because of onset of  
rain. Zigue thought + I  
agreed that the animals



would be less responsive  
with the onset of rain.  
when they would be looking  
for shelter.

Return to house —  
clean-up  
organize pay  
pack + leave.

Drive into Rio w/ Fernando +  
Andy, talking @  
Fernando's problems w/  
project + especially w/  
Beth:

We get into another  
horrendous traffic jam  
on the way to Rio. Takes  
us about 3 1/4 hrs.;  
includes some miserable  
rain + the ~~fast~~ crazy  
driving resulting in at least  
3 accidents that further  
slow down traffic.

People drive on opposite

side of road; on the  
side for parked cars.

At times there are 4  
lanes of traffic on a one-lane  
road.

lots of it is due to weekenders  
returning from Buzios + Cabo Frio.

At airport:

① talk briefly with a Philippine  
Amer. restaurant owner from  
Simsbury CN

② Brazilian woman who  
organizes opera.

Finish this at  
touchdown at  
Kennedy

(PTO)



## Errant Thoughts

- ① Equipment: Drove me crazy when equipment seemed not <sup>to</sup> be functioning. all connections seem to suffer in the heat/humidity/rough wear.
- ② Zigue + Elzama: Wonderful to work with them both. Zigue thinks, considers, rarely comes to a conclusion. Zama decides immediately - occasionally wrong. The philosopher + the do-er. Zama whacks a mean machete + carries lots more equipment than Zigue. Receiver + Speakers. They ~~were~~ <sup>were</sup> ~~used~~ <sup>were</sup> both v. sensitive to me, especially when my back was out. They helped me (Zama more than Zigue) across bad bits of ~~rough~~ trail (or no trail!!)



Zigue + Zama learned @ the forest since they became hunters from very early on. Zigue used to hunt gamba for his mother to cook. He's eaten paca + BB rats; agouti; etc.

The fun part was to watch them rib each other, especially Zama with Zigue. Zama constantly saying that Zigue doesn't work as hard.

Zama is a real punster and loves a good joke. During slow periods, he often got Zigue + himself into hysterics.

Zama is very good at imitating people, a natural mimic, especially their walks. I saw him go thru the same routine about 4-5 times during my stay. He seems to like his jokes best of all.

Zama more than Zigue seems to love to do extra, especially if something different. Helps Andy return a processed monkey to the forest, organizes



to help Cecilia catch rats, cooks dinner two Saturdays in a row, even when he isn't staying, to eat.

- And he's probably the best cook around except for Idemar or Andreia.

(3) Cecilia is a superb addition to the project; a vivacious hard-working outgoing bright woman. She stops smoking during my visit & we all cheer her on.

She seems to drink more than I would expect.

There had been very little booze around the house. I bought some beer, ~~Scotch~~ & Cachaca to add to the stores. Nearly all the beer was gone by my departure.

Very few people drink since most of them are now pretty religious (Jares & family; Octavio & Tania).

A big exception is Agnival who brings some beautifully



tasting pizza into the Headquaters

I make a comment once about sharing a beer w/ Jones + there is a shocked silence.

④ Maturity: It seems like I've seen a lot of boys become men in this project, including Elysema, Ezequiel, Elisen + Otavio.

Otavio got married to 16 yr old Tania + suddenly matured. He speaks aloud, seems a good thoughtful worker, cares about the project — and sits + reads The Bible.

⑤ Casa Murceo is completed + functioning w/ a 2-burner stove and a 2nd hand \$17.00 fridge (run on gas).



The Headquarters is still functioning well. The quietest times were late Saturday + Sunday when very few people are at headquarters.

⑥ Fernando is a very sincere hardworking guy who is bad at decision-making + at setting priorities. He's a vegetarian + hates going to the butcher to buy meat, but won't delegate. So everyone complains @ too little meat.

He and I have 2-3 heart-to-heart chats + I feel that he calms down a bit + gets things into perspective.

I must keep telling him that he cannot be perfect; he can make mistakes; he needs to rely on the people that work for him; ignore Beth.

I'm afraid that we barely kept



him with the project. He was at the end of his rope when I arrived, but I think that my talking with people + mobilizing them helped strengthen his relationship with Dady Cecilia + Jara — which is pretty important.

But he constantly criticizes himself

⑦ Insects weren't bad this time except for one bad day (night) of mosquitos.

My boots died within my 1st week + I was able to wear some leftovers from John Robinson which managed OK.

⑧ My back problem frustrated me terribly but once I got back out, it seemed to clear up except for some niggling darts of discomfort.



⑨ The last 2 days were somewhat frustrating.

Especially Sunday when we walked our butts off and only finished  $\frac{1}{2}$  a group

⑩ I had a long talk with Andy about writing a paper on GLT encounters which are qualitatively different from any other encounters described for territorial social monogamous mammals,

I proposed a paper entitled:  
GLT Boundary Encounters:  
a Junior High School Prom?

Essential parts are that

- ① adults aren't always involved
- ② They can last 4-6 hours; all day
- ③ Juveniles + infants interact a lot — including play.



Finished

6 March

10:08 AM

sitting in JFK in  
snow waiting for  
my flight to  
leave.

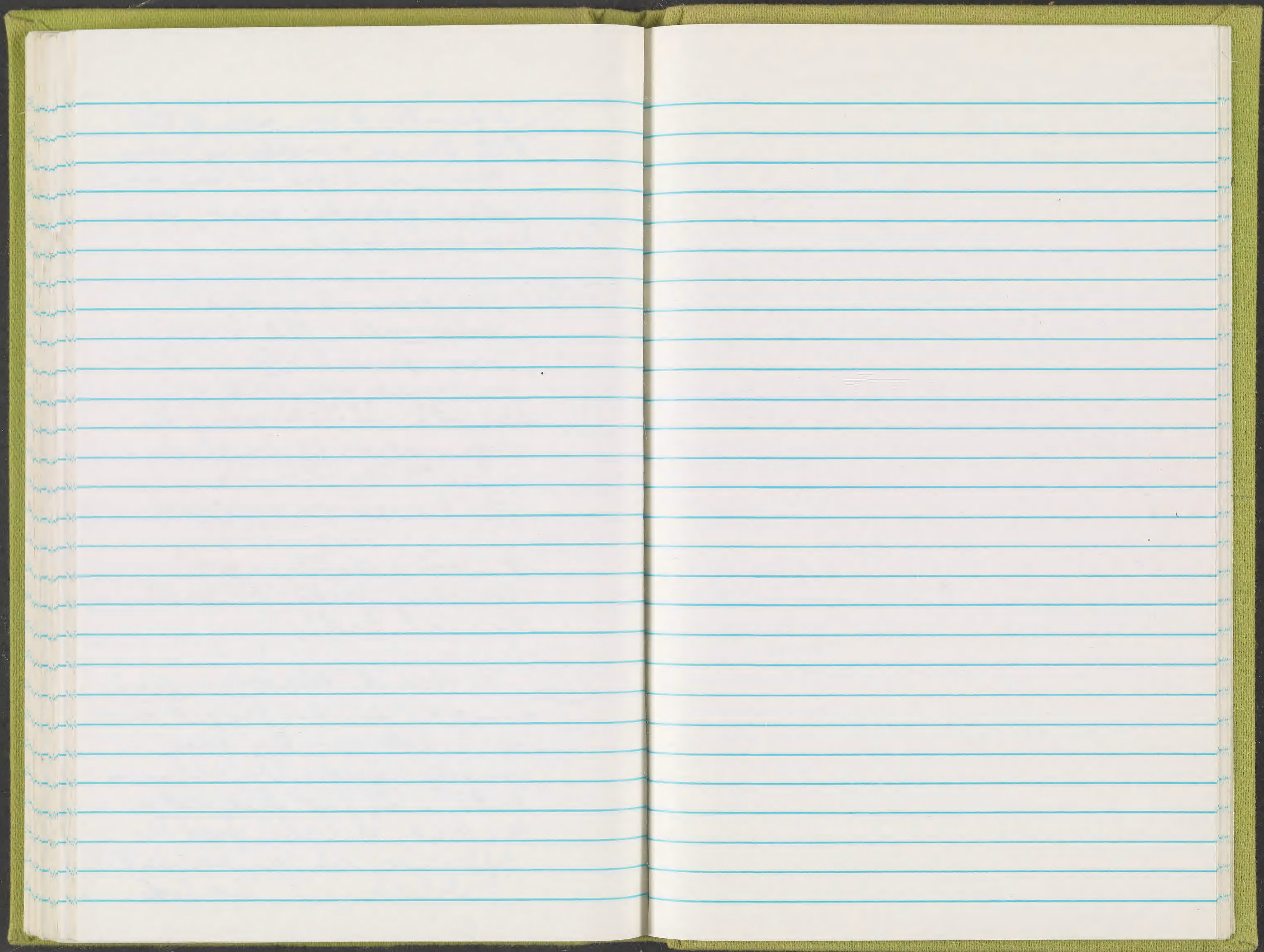
⑪ I travelled over more of the  
Pda Reserve + neighboring areas  
than ever before — saw more  
swamp; hillside; scrub; grass;  
than ever before.

⑫ The voca study went  
really well. And I was  
very pleased with how clear  
the results were and  
how well I'd done with the  
organization of the study.  
John Robinson was impressed.

I can probably get  
something ready for publ.  
by year end.

⑬ The Honen da Mata — Jim's  
man of the forest — tripped me  
up a lot — My back  
was my biggest problem.  
But in my last week out in  
the forest, I could feel the  
difference in my movement  
abilities. I "let loose"  
go."







abot.

gonom  
sus

fin

zel



To do:  
Jim: Have Fernando do big shopping

O do.  
Tim: Have xenando do big shopping

② Have Fernando delegate a list  
more - shopping, cars,

③ Buy more meat.

- ③ Buy more meat.
- ④ Sit down w/ Beth / Vernando together.

together.  
 (5) Can Jody use 2 door traps?  
 Dad said yes! (6) Suzanne  
 Kolb.

⑥ Suzanne Kolb

① Education + GLT \$ from WWF  
all together + to go thru ST.  
oo grant \$ > than  
original request!

② Beth??

Ask Sue Haig to change Andy's talk

~~Brent  
18 Feb - 5 March~~

Kolb  
proposal  
permission

Jody  
① darting <sup>blowgun</sup> 500-600 g Kannabot.

② check his stipend for 1989

1989  
(3) Tell Miles That *Euryzomoides*  
probably before *Spinosus*  
*Kannabateomys* help -

④ check Library help -  
current awareness bulletin  
reprints [melva].

⑤ Thorington.

Everything arrived.

Talk w/ everyone @ Eduardo  
as intern  
Cecilia to do some Educ.  
Replacing Beth.

Oak needs for Brazil  
 good compass  
 2 pr army surplus  
 pants

boots  
socks for boots  
musk oil repellent

Write letter  
to D. on isio  
re: hunters  
on Sunday  
& animals coming in  
cc Fernando  
Diets x 2  
Beck



